

IN THE SPECIFICATION

Please replace the paragraph beginning at page 33, line 7, with the following rewritten paragraph:

The duplex chain cognitive body, that is, an intercalator which selectively combines with a duplex part (hybrid of the probe nucleic acid chain and the target nucleic acid chain) formed on the surface of the electrode after washing, reacts ~~is react~~, and an electrochemical measurement is performed. The duplex chain cognitive body is a double stranded nucleic acid recognizing substance which binds specifically to a double stranded nucleic acid and is active physicochemically to the reaction system of said nucleic acid probe and said gene sample. The intercalator used here is not limited, and bisintercalator, trisintercalator, and polyintercalator, etc. such as Hoechst 33258, acridine orange, quinacrine, daunomycin, metalointercalator, and bisacridine can be used as the intercalator. It is also possible to use the living body high molecules such as organic compounds such as metallic complex such as ruthenium which is called metalointercalator, cobalt, and iron and ethidium bromide, antibodies, and ferments.